

Department of consumer and corporate affairs / le Ministère de la consommation et des corporations

SFG-207

G 1147-4  
GL 1147-4

OTTAWA, December 14, 1972.

Granted to: Canadian Superior Oil,  
703 6th Ave. S.W.,  
Calgary, Alta.

Attention: Fluor Canada Ltd.,  
Engineers and Constructors,  
P.O. Box 35000,  
Houston, Texas, 77035

Attention: Mr. G.R. Hemann  
Manager of Projects

Subject: Two 16" Scheduled 80 Non-Standard Orifice  
Meter Runs

Special Approval has been granted by the Standards Branch to Canadian Superior Oil for the use of two 16" Scheduled 80 non-standard orifice meter runs at the Harmattan Plant.

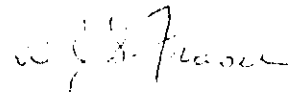
Details of the meter run are as follows:

	FE-802	FE-806
Identification No.	FE-802	FE-806
Nominal Pipe Size	16"	16"
Schedule No.	80	80
Inside Diameter (Fitting & Pipe)	14.314"	14.314"
Maximum Flow	149267.50 MCFD	191548.75 MCFD
Normal Flow	116304.00 MCFD	150000.00 MCFD
Flow Pressure	941.4	903.4
Flow Temperature	86.0°F	99.0°F
Base Pressure	14.65 psia	14.65 psia
Base Temperature	60°F	60°F
Plant Elevation	3764.0 ft.	
Gas Mol. Wt.	19.08	17.85

Meter Run Fitting ASA Rating	Senior 600# RTJ Sched. Flange Taps	Senior 600# RTJ Sched. Flange Taps
Upstream Straight Pipe	28'	21'
Downstream Straight Pipe	6'	6'
Beta $\frac{d}{D}$ ratio	0.579	0.647

The Basic Orifice Factor  $F_b$  for these meter runs shall be calculated in accordance with Appendix B, Gas Measurement Committee Report #3 revision #3 American Gas Association, since interpolation from the tables can produce significant errors. The other factors for the flow calculations shall be taken from the tables in Report #3.

This approval is contingent upon the meter runs passing inspection of the Calgary District Office of Electricity and Gas.



W.J.S. Fraser,  
Chief,  
Electricity and Gas Division

cc. Mr. A.S. Park, Dist. Insp., Calgary  
Mr. J.M. Taylor, Regional Supervisor, Winnipeg  
Fluor Canada Ltd.